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TRANSURANIC RADIONUCLIDES DISPERSED INTO THE AQUATIC ENVIRONMENT, A BIBLIOGRAPHY

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April 1994

Lawrence
Livermore
National
Laboratory

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Table of Contents

Abstract.....	01
Introduction:.....	01
Methods and Results.....	02
Table 1.....	05
Table 2.....	18
Table 3.....	25
Table 4.....	27
Discussion.....	04
Bibliography:.....	49

ABSTRACT:

The purpose of this project was to compile a bibliography of references containing environmental transuranic radionuclide data. Our intent was to identify those parameters affecting transuranic radionuclide transport that may be generic and those that may be dependent on chemical form and/or environmental conditions (i.e., site specific) in terrestrial, aquatic and atmospheric environments. An understanding of the unique characteristics and similarities between source terms and environmental conditions relative to transuranic radionuclide transport and cycling will provide the ability to assess and predict the long term impact on man and the environment. An additional goal of our literature review, was to extract the ranges of environmental transuranic radionuclide data from the identified references for inclusion in a data base. Related to source term, these ranges of data can be used to calculate the dose to man from the radionuclides, and to perform uncertainty analyses on these dose assessments.

In an attempt to gather relevant information about the transuranic radionuclides in a variety of environments, we conducted an extensive literature search. In our literature search we identified over 5700 potential written sources of information for review. In addition, we have identified many references that were not found through the literature searches, but which were known to contain useful data. Approximately 2600 documents were determined to contain information that would be useful for an in depth study of radionuclides in different environments. The journal articles, books, reports and other documents were reviewed to obtain the source term of the radionuclides studied.

On the basis of our reviews, we have arbitrarily outlined five general source terms. These are fallout, fuel cycle waste, accidents (not involving atmospheric fallout), disposal sites and resuspension. Resuspension of the transuranic radionuclides is a unique source term, in that the radionuclides can originate from any of the other source terms. If these transuranic radionuclides become resuspended into the air, they then become important as a source of inhaled radionuclides.

INTRODUCTION

The issue of transuranic radionuclides in the environment has been the subject of extensive research. For approximately five decades, plutonium and americium have been dispersed into the environment, resulting in widespread low level contamination of soil, water, plants and animals. To compare the transport, uptake, cycling and resuspension of plutonium and americium from various source terms around the world, it was necessary to summarize information from studies of these radionuclides in different environments. Some logical method of categorizing the source of the

transuranic radionuclides had to be devised to use the data from the studies in a predictive manner. Our first task was to identify the source terms that we considered to be of primary importance.

This report is intended to cover the global reports dealing with inputs from the different source terms to aquatic (fresh and marine) environments as well as pertinent laboratory studies, other reviews, and dose assessments. This is Section I of a three part study. Terrestrial and atmospheric environments will be covered in Sections II and III. The global aquatic environment has received inputs of transuranic radionuclides from many sources. Included among the sources are the detonations of nuclear devices in the atmosphere, on the earth's surface and underwater; the localized inputs of low-level liquid wastes from many different nuclear facilities; the disposal of packaged wastes in the sea; lost military hardware; accidents involving nuclear power reactors; and malfunctioning satellite power sources.

The literature is sorted with respect to source term in order eventually to compare and assess different literature values on short and long term bioavailability and on the behavior and fate of the transuranic radionuclides.

METHODS AND RESULTS:

We began by searching several large on-line databases using keywords that we had identified as relevant to transuranic radionuclide transport, uptake and cycling in the environment. These searches were performed from June through September 1992.

The Energy Data Base was the first on-line database we searched. Using our original keyword strategy, the original number of identified items was only 869. On the basis of each abstract provided with the search, only 516 seemed to contain the kind of information relevant to our goals. We adjusted our keyword list by both expanding some areas, and narrowing the focus in others. A second search of the Energy Data Base produced an additional 4258 titles. About 1700 of these items were determined to be of interest.

Next, we expanded our search to the Chem. Abstracts Data Base. This search yielded 969 items. Some of these had already been identified through the Energy Data Base searches. In addition to the references identified in our on-line searches, we were already in possession of several references known to contain useful data. A final search was performed with the intent of yielding these known references. This assured us that our keyword list was producing the intended result.

After the final search was completed, we began to obtain all of the identified references. As these were obtained, the reference list at the end of each document was checked for additional references that had not been previously

identified. This resulted in further titles being added to our bibliographic database.

To produce our bibliography and environmental source term databases, we have used two commercially available software packages. ProCite version. 2.0 for the Macintosh was used to produce the bibliography. The source term database was produced using dBase IV, version. 1.5 on an IBM PS/2. The two different software packages were cross referenced to each other using a common field. The dBase IV database was used to keep track of the information extracted from the references. This allowed us to sort the references using a variety of criteria.

Table 1 contains a compilation of reference accession numbers related to specific studies of transuranic radionuclides originating from fallout and accidents in aquatic environments. This table also includes references dealing with radiological dose originating from these sources.

Table 2 is a comparable compilation of references concerning transuranic radionuclides from fuel cycle wastes and disposal sites. The fuel cycle wastes result from direct discharges or releases from different nuclear related facilities and waste disposal sites. Also provided is a list of related dose assessment reports dealing with material released from these sources.

Table 3 lists references to laboratory studies and some reviews of the transuranium elements. Laboratory studies are divided into biological accumulation/loss studies involving different fresh water and marine organisms; distribution coefficient/sorption-desorption studies with different fresh water and marine sediments; oxidation state and speciation work; investigations of transuranic radionuclides and different organic complexing agents; and other efforts.

Each table identifies an accession number under a specific source term and the aquatic medium studied; either fresh or marine. The footnotes at the end of Tables 1 and 2 identify specific sources listed in the tables and the medium studied.

Table 4 is an alphabetical listing of all accession numbers. This table identifies where the applicable accession number is found in Tables 1, 2, or 3. Any reference dealing with more than one source or medium is identified under all applicable categories.

Following the tables is the list of references associated with each accession number.

DISCUSSION:

This bibliography is an attempt to provide a resource for information on the behavior of transuranic radionuclides in the aquatic environment from fallout, fuel cycle waste, accidents, and disposal sites. Our final on-line database search was in September 1992. There may be additional references of interest in these on-line databases added since that time. References identified by other methods are included through July 1993.

TABLE 1. Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, safety tests), accidents and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ^{1,1}			Close-In Deposition ^{1,1}			Dose/Diet
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic
aara770011	albj751330	bowlv800741	nosv811917	aara710576	aara810009	agnp781328	
aara781313	albj751331	buek871428		aara711312	faud851557	anon861329	
aara791314	albj751332	buek901220		aara770002	gond890784	ben762640	
aara810009	albj770020	coup840747		aara800003	ira890974	benb760068	
aara822425	albj771333	few892651		aara800010	kuda910274	coup840747	
aara822498	albj772782	hiss780217		aara810009	mahy881171	eurr901240	
aara832277	albj791335	hole911252		aara822425	nosv760351	gond890784	
aara841316	albj810625	ilue871719		aara842260	nosv811917	hiss860795	
aara880005	albj811334	ilue871720		aara850593	robw800403	hiss870218	
agnp781328	albj890659	livh821164		aara880005	sakm870413	larr831151	
allb832317	andr8232317	livh852668		aara880600	sakm911290	mula761188	
andr822386	andr822396	livh870297		aara891208		nosv811917	
ands901209	bals800058	livh882670		ang811350		nosv870867	
anon602635	bals841369	nagy841051		babj910056		nrcr832284	
anon861329	barg770541	nelv770339		bowv750756		okas771926	
bacm850823	beat861380	nosv800350		bowv752642		okas781927	
bals762636	beat871381	nosv810347		cohn851488		pasa781930	
bals782637	beat871382	nosv810646		coup840747		penr882753	
bals800058	berk860719	nosv860348		gasch921086		robw800403	
bals811368	bojr91407	nosv870349		gren771629		robw810660	
bals822510	bonp911217	nosv870867		hanw751106		summ812087	
bals832337	bopr822393	okas781927		ira890974		wild752166	
bals841369	bowlv722783	ribj902919		jacdb832750			
bals860059	bowlv731415	robw810660		komk840815			
beat801378	bowlv741416	sakm752003		levy781799			

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose / Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic	
beat822378	bowv752791	shis870439			evy781800			
beat822383	bowv760552	thoc582686			marj901263			
bely822499	bowv772784				marr741822			
benl791391	buek850761				mcmg851844			
benl802641	corr871491				nelv732673			
benl832332	deler861503				nelv770339			
benl860660	eakj840754				neva751902			
berk860719	eakj850131				neva751903			
beta860534	edgd750135				nosv721059			
beta880720	edgd760133				nosv741915			
bojr791407	edgd760137				nosv751061			
bopr822393	edgd770136				nosv760346			
bowv710739	edgd812550				nosv760351			
bowv750756	eyml771550				nosv800350			
bowv760076	eyml801551				nosv802516			
bowv760553	feiw830154				nosv802677			
bowv761417	fosg840762				nosv810347			
bowv800741	fukr810768				nosv812551			
bowv802643	gole791090				nosv852752			
bowv811068	habk870191				nosv860348			
buek851426	hare800204				nosv861201			
buek862644	harf751668				nosv870349			
buek871427	heim860567				nosv870867			
buek871428	hirk810216				nosv880869			
cald851439	hirk900792				penr811036			

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and
references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose/Diet
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	
cald870094	jeac810805						penr841938
car781445	joss881739						penr882754
carr801456	joss891738						robw800403
carr812645	karf751740						robw81402
carr871193	koim771142						sakm900843
caug801465	koim791141						schw731007
chel770902	koim811144						schw742012
cher801471	koim820269						schw751003
cocj832269	koim831199						schw760421
cocj850115	koim851146						schw782013
cocj870114	kris741769						schw802515
coup840747	kris801770						schw872685
dans822354	lamm751781						watr802757
dela791504	larr781152						wela692156
dela802646	larr831151						wild752166
dela841505	linr921260						wonk792171
delm862647	lizh880831						
delr861503	marj891820						
delr862648	marj751175						
delr882650	metm811846						
druie830877	morj911271						
duns841521	mula761188						
dyer762694	neld850338						
edgd812550	neld871899						
eurr901240	neld891900						
farj830975	nrcr832284						

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹¹			Dose/Diet
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic
felw852696	plap761960						
felw892651	robj851981						
felw892697	robj851982						
fism881073	robj911287						
folt731078	sana832272						
folt790161	sana861002						
folt792652	scom780430						
fows831192	scom802785						
fows852653	scom850431						
fows871196	scom872029						
fows892654	shoe821016						
fows902655	shoe832275						
fows922656	simh800683						
fukr762657	simh801017						
fukr791586	simh820451						
fukr792658	simh842052						
fukr801587	simh852053						
fukr811588	sprd780467						
fukr811590	sugy762083						
fukr832330	vano810979						
fukr871591	volh832298						
gasc921086	wahm732786						
gole751621	wahm740983						
gole771622	wahm742138						
gole781089	wahm742787						

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and
references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose/Diet
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	
gole781624	wahm750493						
gole801625	wahm750982						
gole802660	wahm760491						
gole832334	wahm772788						
grow741634	wahm772789						
guai771636	wahm780784						
guai812661	wahm781205						
guaj821096	wahm781206						
hall860198	wahm802139						
harj790206	wahm820494						
hayd761116	watr802757						
hayd801673	watr832315						
higj771118	yage740995						
higj781682	yamm901304						
higj801683	yamm911305						
hiss860795							
hiss870218							
hodv731122							
hodv741121							
hodv741690							
hodv781692							
hodv791120							
hole772662							
hole800230							
hole801125							

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose/Diet Column g All Aquatic	
	Column a Marine ²	Column b		Column c Marine ²	Column d			
		Fresh ³	Fresh ³		Fresh ³	Marine ²		
hole801702								
hole810225								
hole832311								
hole862663								
hole862664								
hole882747								
igas822423								
ilue870703								
imat731132								
imay750237								
irae890974								
ishj880246								
jacd832250								
jeac811729								
jenc850251								
johj811736								
kauh810260								
kauh822500								
kauh850259								
kauh880258								
kerp892717								
koim751198								
koim790270								
koim800616								
koim800617								

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and
references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose / Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic	Column g All Aquatic
koim802665								
koim811200								
koim821143								
koim821145								
kris741769								
kris801770								
kris841771								
krom851774								
kurmt60621								
kurm801776								
kuzy822416								
labl760277								
labl771778								
lald771780								
lapg871782								
lazi880281								
ledp861786								
less862666								
linp801157								
linp851804								
livh751165								
livh760294								
livh760295								
livh771163								
livh771808								
livh790296								

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹		Dose / Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic
livh791811							
livh802667							
livh821162							
livh821164							
livh830293							
livh852668							
livh862669							
livh870297							
liwe871801							
mand842671							
matv832333							
miej751851							
miej760322							
miej820323							
miyy862672							
miyy681183							
miyy761181							
monm8611868							
mula761188							
murc771189							
murc781881							
nagy841051							
nagy851887							
nagy861888							
nagy870858							
nagy872792							

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and
references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹			Dose / Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic	
nagy900859								
nagy922781								
nakk851052								
nakk901273								
nakt841053								
nakt881891								
neld841057								
neld871899								
nelv760639								
nelv770638								
nelv790636								
nieh882675								
nier822344								
nilk812676								
nosv721059								
nosv731060								
nosv731914								
nosv741062								
nosv760346								
nosv780353								
nosv790647								
nosv800350								
nosv801916								
nosv810345								
nosv830352								
nosv832680								

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.

Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Intermediate Range Deposition ¹¹		Close-In Deposition ¹¹ Column e Marine ²	Column f Fresh ³	Column g All Aquatic	Dose/Diet
				Global Deposition ¹	Deposition ¹¹				
nosv852752									
nosv860348									
nosv861201									
nosv862726									
nosv870349									
nrcr832284									
okas771926									
olsc801065									
olsc810364									
olsc810365									
ostp910359									
ostp911276									
pali841203									
papc882728									
papc892729									
penr811036									
penr841938									
penr882754									
pilk641042									
pors861963									
purc891968									
risn781980									
rotr851998									
sakm870413									
sakm900843									
sala800416									

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and
references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹		Dose/Diet Column g All Aquatic	
	Column a Marine ²	Column b Fresh ³		Column c Marine ²	Column d Fresh ³		
		Column e Marine ²	Column f Fresh ³				
sala842681							
sala862007							
sana832272							
sana861002							
sana880418							
sana911291							
samp802011							
samp822394							
saxr891292							
sayf872683							
schw7822740							
schw800424							
schw830903							
scom832324							
scom852027							
scom862028							
shoe8322755							
shoe842043							
shoe872044							
simh760445							
simh870444							
simk770443							
simk792049							
skwb900978							
smij820461							
smij861019							

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹			Close-In Deposition ¹¹¹			Dose / Diet
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	
smij872069							
smij892741							
stom851024							
sugy762083							
summ812087							
them800477							
torl790480							
tric822419							
tric822503							
tuok862119							
vano810979							
watr802757							
weid832288							
wonk700993							
wonk710994							
wonk722170							
wonk792171							
wonk922688							
yama770515							
yama842257							
yama911306							
yama921307							
yamm790510							
yamm840996							

TABLE 1 (continued). Accession numbers: Transuranic data base—global aquatic environments.
General source terms—atmospheric fallout (nuclear testing, nuclear weapons, accidents, safety tests), and references to dose from ingestion of aquatic foods contaminated with sources.

Global Deposition ¹	Intermediate Range Deposition ¹¹		Close-In Deposition ¹¹¹		Dose/Diet		
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g All Aquatic
yamm901304							
yamm911305							
yanh862178							
yank822689							

¹ Includes reports on the following sources: World Wide Fallout from Atmospheric Testing, SNAP 9A Accident.

¹¹ Includes reports on following sources: Intermediate Range Fallout from U.S. Pacific Proving Grounds, Intermediate Range Fallout from Chernobyl Accident, Intermediate Range Fallout from Lop Nor Test Site.

¹¹¹ Includes reports on following sources: Close in Testing fallout - Enewetak Atoll, Close in Testing Fallout - Bikini Atoll, Close in Testing Fallout - Mururoa Atoll, Close in Fallout - Thule Accident Site, Close in Fallout - Palomares Accident Site, Close in Weapons Fallout - Nagasaki, Japan, Close in Weapons Fallout - Hiroshima, Japan.

² Includes reports of transuramics in seawater, sediment, biota and particulates in oceans, seas, bays, fjords and estuaries.

³ Includes reports of transuramics in water (liquid & ice), sediment, biota and particulates in rivers, lakes, ponds, catchment basins, glaciers, groundwater and reservoirs.

Table 2. Accession numbers: Transuranic data base—global aquatic environments.

General source terms—fuel cycle waste (reprocessing, reactor, and fabrication facilities), disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.

Reprocessing Facility ¹	Reactor Facility ¹¹			Fabrication Facility ¹¹			Disposal Research Site ¹¹¹			Radiological Dose/Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g Marine ²	Column h Fresh ³	Column i All Aquatic	Column j All Aquatic	
ara841316	andb781347	beat81065	beat81065	beat791377	camw922714	albj760017	ara862790	bogd881405	baxm832326	baxm891194	
ara880005	eakj850131	beat822379	beat81065	camw932275	albj860656	andj702745	bonj871411	camw922714	camw922714	camw932275	
ara882690	emer741532	beat840715	beat810714	hayd761116	albj860700	baxm832326	beta880720	camw932275	camw932275	camw932275	
allb832317	bowv810074	bea1811379	hayd801673	albj871336	beta880720	beta880720	beta880720	camw932275	camw932275	camw932275	
anc801344	camw922714	beat822379	hayd871674	barg751375	bonj871411	barg820579	garc820579	cluh521485	cluh521485	cluh521485	
angl811350	camw932275	beat822383	hung792704	barg770541	bowv760076	garc810772	garc810772	coup840747	coup840747	coup840747	
assd832691	folt731078	bea1840715	hung802705	barg780540	bowv811068	gln9n00188	gln9n00188	crom901231	crom901231	crom901231	
assd842261	emert70141	beat871381	hung812706	bokd811408	camw922714	hakt800587	ture911232	ture911232	ture911232	ture911232	
assd850841	emert772793	beat871382	hung822707	bone770704	camw932275	kir8223360	dahr760124	dahr760124	dahr760124	dahr760124	
assd900842	emer780860	hung812706	hung832708	bone790549	crad740944	kir1830265	emer800143	emer800143	emer800143	emer800143	
asss810054	emer800143	hung822707	camw932275	bone80699	dyer762694	metm820852	eur901240	eur901240	eur901240	eur901240	
astis810055	emer801536	hung832708	clej822397	card871454	felw852696	metm800853	gram850785	gram850785	gram850785	gram850785	
astis810832	emer802795	hung842709	hung792704	card881455	felw892697	myed750336	grip822415	grip822415	grip822415	grip822415	
astis811360	foul842241	hung852710	hung802705	corj760927	jacd832750	nyjh820357	harj81670	harj81670	harj81670	harj81670	
astis822430	fukr810768	hung852711	hung812706	coup840747	kerp8922717	hetj762703	hetj762703	hetj762703	hetj762703	hetj762703	
astis851361	galr881594	hung861716	hung822707	dah760124	kubd681775	purw901283	hung792704	hung792704	hung792704	hung792704	
bely822499	graab861626	hung877212	hung832708	edgd750134	kubd691149	purw901284	hung802705	hung802705	hung802705	hung802705	
bowv750756	hole882747	hung881127	hung842709	eyml771550	nosv780353	schk742015	hung812706	hung812706	hung812706	hung812706	
bulf850729	iac810805	hung891128	hung2710	olsc891066	eyml801551	penw901041	sedj742030	hung822707	hung822707	hung822707	
bulf921221	joss881739	hung901129	hung852711	farb7711552	nosv830352	sedj782032	hung832708	hung832708	hung832708	hung832708	
buwp881434	mari901262	ilue870703	hung861716	farb780152	nosv860348	sinh770684	hung842709	hung842709	hung842709	hung842709	
cald870094	nosv721059	iyer901133	hung872712	farb780572	nosv861201	hung852710	hung852710	hung852710	hung852710	hung852710	
camw891194	oniy820875	kits761755	hung881127	farb790150	nosv862726	hung852711	hung852711	hung852711	hung852711	hung852711	
camw922714	pimm791953	koim790270	hung891128	farb801553	oecd852727	hung861715	hung861715	hung861715	hung861715	hung861715	
camw932275	pimm822353	koim800616	hung901129	farb811555	pap882728	hung861716	hung861716	hung861716	hung861716	hung861716	
car910097	scht820428	koim800617	ibr890236	farb822368	papc892729	hung872712	hung872712	hung872712	hung872712	hung872712	
clir822693	limp801157	knol880268	hung891128	farb910151	penr882754	hung881127	hung881127	hung881127	hung881127	hung881127	
clir830112	mors801870	kona911258	hung891129	gole791090	robw810402	hung891128	hung891128	hung891128	hung891128	hung891128	
cocj832269	nair851889	kuzg780276	hung891129	hare760591	schw782740	hung8922778	hung8922778	hung8922778	hung8922778	hung8922778	
cou840747	sakrn792004	kuzg871777	hung891129	hare800204	schw800424	hung901129	hung901129	hung901129	hung901129	hung901129	

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.

Reprocessing Facility ¹	Reactor Facility ¹¹		Fabrication Facility ¹¹		Disposal Research Site ¹¹¹		Radiochemical Dose/Diet	
	Column ^a Marine ²	Column ^b Fresh ³	Column ^c Marine ²	Column ^d Fresh ³	Column ^e Marine ²	Column ^f Fresh ³	Column ^g Marine ²	Column ^h Fresh ³
croj810947	sakr870570	lasg830279	hayd761116	schw830903	hung902713	Column i All Aquatic		
crom901231	sala830417	marj861827	hayd801673	scop842262	iaeaa882749			
cure911232		onlk901275	johj742794	smij861019	kerp922751			
dayj810876		pinj921281	kenc780611	smij892741	kurm801776			
duns841521		pepp800653	lamm751781	weih860972	malj751819			
duhf771522		robj731987	mult770635		mckw911266			
eakj882695		robj771988	oak822347		mckw911267			
eakj901236		wahm742138	olsc891066		mitrn752719			
eich811529		watr802757	paid771926		mitrn772720			
eurr901240			paid801929		nics881904			
farj832341			poes721043		penr790651			
fows771080			reet781976		penr811036			
fraa751573			rodd760661		penr842733			
fraa761574			rogd751992		penr882737			
garj892698			thom752110		penr882780			
garj902586			traj832290		penr891037			
gerp841602			traj832290		post881965			
gerp871603			volh752131		scop842262			
gerp881600			volh762133		shik920973			
guaj751638			water802757		summ802086			
guaj761639			wayc752151		wood862172			
guaj771097			wayc772152					
guaj771636			whif900989					
guaj821096			zilj742183					

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.	Reprocessing Facility ¹		Fabrication Facility ¹¹¹		Disposal Research Site ¹¹¹		Radiological Dose/Diet	
	Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g Marine ²	Column h Fresh ³
		Facility ¹¹		Facility ¹¹		Marine ²		Fresh ³
hame841102								
hame852701								
hame871654								
hame891655								
hame912702								
harb842777								
hetj750212								
hetj760210								
hetj761680								
hetj762203								
hetj781117								
hole810225								
hole862663								
howj8811712								
howj891254								
hung822707								
hung7922704								
hung802705								
hung812706								
hung852711								
hung861716								
hung872712								
hung881127								
hung891128								
hung901129								
imay750237								

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.

Reprocessing Facility ¹	Reactor Facility ¹¹		Fabrication Facility ¹¹¹		Disposal Research Site ¹¹¹		Radiological Dose/Diet	
	Column b Marine ²	Column c Fresh ³	Column d Marine ²	Column e Fresh ³	Column f Marine ²	Column g Marine ²	Column h Fresh ³	Column i All Aquatic
jacd832750								
jama782779								
jeac811729								
kauh801743								
kauh810260								
kauh822500								
kauh850259								
kauh880258								
kelm881135								
kelm911134								
kerp832306								
kerp841136								
kerp861749								
kerp862716								
kerp901137								
kerp922751								
kirr831139								
kurm760621								
kurm801776								
livh771163								
livh821162								
livh841810								
lovn811161								
maca821166								
mals901172								
mals901261								
matv832333								
matv900308								
matv921264								
mcdp901168								

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources									
Reprocessing Facility ¹	Reactor Facility ¹¹		Fabrication Facility ¹¹¹		Disposal Research Site ¹¹¹¹		Radiological Dose/Diet		
	Column ^a Marine ²	Column ^b Fresh ³	Column ^c Marine ²	Column ^d Fresh ³	Column ^e Marine ²	Column ^f Fresh ³	Column ^g Marine ²	Column ^h Fresh ³	
mckw880314									Column i All Aquatic
mckw891841									
mckw901268									
mckw911266									
mckw911267									
mirp841856									
minn7522719									
minn7722720									
minn7722721									
mitp872722									
mitp872723									
mitp882724									
mitp912725									
morf9112271									
mure771189									
mure781882									
mure790334									
mure791883									
mure791884									
nelld781055									
nelld811056									
nics881904									
nieh901274									
nieh932920									
nosv8522752									
okas791928									
patb792730									
penr761038									
penr770373									

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.

Reprocessing Facility ¹	Reactor Facility ¹¹	Fabrication Facility ¹¹¹	Disposal Research Site ¹¹¹¹	Radiological Dose/Diet				
Column a Marine ²	Column b Fresh ³	Column c Marine ²	Column d Fresh ³	Column e Marine ²	Column f Fresh ³	Column g Marine ²	Column h Fresh ³	Column i All Aquatic
penr771936								
penr780374								
penr790651								
penr802731								
penr811034								
penr811036								
penr811937								
penr822732								
penr841040								
penr841938								
penr842733								
penr852734								
penr861939								
penr862735								
penr862770								
penr872736								
penr882737								
penr882754								
penr882780								
pilk760377								
pilk822502								
shik920973								
smit801018								
temw662742								
thon822429								
tooj900934								
turd911032								

Table 2 (continued). Accession numbers: Transuranic data base—global aquatic environments.

General source terms—industrial, government and research facilities, disposal sites, and references to dose from ingestion of aquatic foods contaminated with sources.

Reprocessing Facility ¹	Reactor Facility ¹¹		Fabrication Facility ¹¹¹		Disposal Research Site ¹¹¹¹		Radiological Dose/Diet	
	Column ^b Marine ²	Column ^c Fresh ³	Column ^d Marine ²	Column ^e Fresh ³	Column ^f Marine ²	Column ^g Marine ²	Column ^h Fresh ³	Column ⁱ All Aquatic
vano810979								
walm911300								
watr802757								
wil882743								
wood840508								
wood862172								
wood882744								
yama842257								

¹ Includes the following specific sources: Dounreay, United Kingdom, Hanford, Wash., United States, LaHague, France, Karlsruhe, Germany, Marcoule, France, Sellafield (Windscale), United Kingdom, Tokai, Japan, Trombay, India, West Valley, N.Y., United States.

¹¹ Includes the following specific sources: AEA sites, United Kingdom, All commercial reactor sites, Hanford, Wash., United States, INEL, Idaho, United States.

¹¹¹ Includes the following specific sources: Capenhurst Lab, United Kingdom, Mound Lab, Ohio, United States, Oak Ridge Lab, Tenn., United States, Rocky Flats Lab, Colo., United States, Savannah River Lab, S.C., United States, Springfield Lab, United Kingdom.

¹¹¹¹ Includes the following specific sources: Disposal Sites, Argonne Lab, Ill., United States, AWE Lab, Aldermaston, United Kingdom, CEN Lab, Belgium, LLNL, Calif., United States, Los Alamos Lab, N. Mex., United States, San Clemente Is., Calif., United States, Winfrith Centre, United Kingdom, Disposal Sites, Cactus Crater, Enewetak, M.J., European North East Atlantic Site, Farallon Is., Calif., United States, Maxey Flats, Ky., United States, U.S. Western Atlantic Site

² Includes data for seawater, sediment, biota and particulates in oceans, seas, and estuaries.

³ Includes data for water, sediment, biota and particulates in rivers, lakes, and reservoirs.

Table 3. Accession numbers: Transuranic data base—aqueatic laboratory studies/miscellaneous reviews.

Biological Accumulation/Loss Studies		Distribution Coefficient/Sorption Desorption Studies		State/Speciation Studies		Oxidation Complexation		Organic Complexation		Others	
Column a Marine	Column b Fresh	Column c Marine	Column d Fresh	Column e Marine	Column f Fresh	Column g Marine	Column h Fresh	Column i Marine	Column j Fresh		
asts840835	adaw701322	asts840835	allb791338	asts800824	bone770704	chog841472	giej771604	bely841385			
asts861362	beat801378	asts870836	dost781515	asts811359	chog851473	chog861474	morj911271	frej790165			
asts870836	bie811395	ball861366	morf911271	asts832329	chog911227	chog871475	mouv881872				
beat760790	cusc880749	burp861433	muds881187	asts840835	hear841676	chog890912	muds881187				
beat760811	galj841593	chog871475	murs751878	asts861362	hear892758	fism830977	neld851058				
beat801378	giej771604	chog890912	murc821202	bone770704	hylj851718	mate801832	sc0m002025				
bje850694	giej781605	duue761523	nair880337	burp861433	larr781783	morj861871	sheg831009				
cara791446	giej811606	fism911243	neld851058	carf851460	morj911271	morj911271	swaj840930				
carf832335	gneg7711615	grov731197	orkl861063	chog841472	muds881187	robr851985	swaj860929				
carf841459	gneg7711617	hamij871101	sana822410	chog851473	murc751878	sc0m002025					
carf851460	marc871821	harb811115	sana851001	chog861474	murc821202	sheg831009					
clir891483	meyh791848	higj832331	schw792014	chog871475	nask881894	shoe831015					
dahh841496	thig792100	higj861684	schw822373	chog890912	neld851058						
dahh861497	thig802101	iae852769	seyt792036	chog901228	ned871899						
fism830977	thig832266	morp861871	shoe831015	chog911227	orlk861063						
fism831070	thig842102	morf911271	sibj822345	clej830922	pat761035						
fism832320	tilj762112	muds881187	sibj822351	duue761523	patj832297						
fism851563	tkam772113	murc751878	vano842123	fism830977	penw871935						
fism861564	traj762116	sana822410	schf862018	hamij871101	raid801047						
fism871072	traj782117	seyt792014	schw822373	hear841676	sana851001						
fism911242	vanj870937	seyt792036	shap821008	hear892758	silg892090						
fism911243	myed750336	schw822373	sibt842045	lovrm811161	tkam772113						
folr791589	fows751570	shej762037	sibt822345	morf861871							
fows851571	frej790165	stad822389	sibt842045	morj911271							
frej801577	gajj841593	stad862073	stad822389	muds881187							
gajj8622771	gajj8622771	vana862122	stad862073	patj832297							
gerp841601	gerp841601	vano842123	patj761035	robr841984							
gorj842264	gorj842264	gouj911246	sibt862046	robr851985							

Table 3 (continued). Accession numbers: Transuranic data base—aqueatic laboratory studies/miscellaneous reviews.

Biological Accumulation/Loss Studies	Distribution		Oxidation State/Speciation Studies		Organic Complexation		Others			
	Column a Marine	Column b Fresh	Column c Marine	Column d Fresh	Column e Marine	Column f Fresh	Column g Marine	Column h Fresh	Column i Marine	Column j Fresh
grov741633										
grov741635										
guaj791637										
guap811093										
guap811094										
guaj822400										
guap901095										
hamt910200										
harb861663										
hopm791703										
iae852769										
koyt861762										
leod811156										
matv830307										
mirp821179										
mirp851180										
mirp862772										
mirp871857										
mirp891858										
moti751184										
murc761879										
murc781880										
penr780650										
penr781039										
rei911285										
robdd711986										
sibt901295										
swid882773										
thor812103										
vanj832323										
zlov700999										
zlov732185										

Table 4. Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
aara710576	1	e	Field; Greenland; Thule
aara711312	1	e	Field; Greenland; Thule
aara770002	1	e	Field; Greenland; Thule
aara770011	1	a	Field; Denmark coastal sites
aara781313	1	a	Field; Denmark coastal sites
aara791314	1	a	Field; Denmark coastal sites
aara800003	1	e	Field; Greenland; Thule
aara800010	1	e	Field; Greenland; Thule
aara810009	1	a,e,f	Field; Greenland; Thule
aara822425	1	a,e	Field; Greenland; Thule
aara822498	1	a	Field; Baltic & North Sea
aara832277	1	a	Field; Greenland
aara841316	1;2	a;a	Field; Atlantic
aara842260	1	e	Field; Greenland; Thule
aara850593	1	e	Field; Greenland; Thule
aara862790	2	g	Review
aara880005	1;2	a,e;a	Review
aara880600	1	e	Field; Greenland; Thule
aara882690	2	a	Field; North Sea
aara891208	1	e	Field; Greenland; Thule
adaw701322	3	b	Lab Study
agnp781328	1	a,g	Review; Dose
albj751330	1	b	Field; U.S.A., Lake Michigan
albj751331	1	b	Field; U.S.A., Lake Michigan
albj751332	1	b	Field; U.S.A., Lake Michigan
albj760017	2	f	Field; U.S.A., Miamisburg, OH
albj770020	1	b	Field; U.S.A., Lake Michigan
albj771333	1	b	Field; U.S.A., Illinois
albj772782	1	b	Field; U.S.A., Great Lakes
albj791335	1	b	Field; U.S.A., Lake Michigan
albj810625	1	b	Field; U.S.A., Lake Michigan
albj811334	1	2	Field; U.S.A., Great Lakes
albj860656	2	f	Field; U.S.A., Savannah River Plant
albj860700	2	f	Field; U.S.A., Savannah River Plant
albj871336	2	f	Field; U.S.A., Savannah River Plant
albj890659	1	b	Field; U.S.A., Lake Michigan
allb791338	3	d	Lab Study
allb832317	1;2	a,b;a	Review
ancj801344	2	a	Field; France coastal sites

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
andb781347	2	a	Field; Europe
andj702745	2	g	Review
andr822386	1	a	Field; Atlantic
andr822396	1	b	Field; U.S.A. Mono Lake, CA.
ands901209	1	a	Field; Atlantic
angl811350	2	a,e	Review
anon602635	1	a	Field; U.S.A., NY
anon861329	1	a,f	Field; Japan; Dose
assd832691	2	a	Field; U.K., Irish Sea
assd842261	2	a	Field; U.K., Esk Estuary
assd850841	2	a	Field; U.K., Esk Estuary
assd900842	2	a	Field; U.K., Esk Estuary
asts800824	3	e	Review
asts810054	2	a	Field; U.K., Wyre Estuary.
asts810055	2	a	Field; U.K., coastal sites
asts810832	2	a	Field; U.K., Esk Estuary
asts811359	3	e	Review
asts811360	2	a	Field; U.K., Esk Estuary
asts822430	2	a	Field; U.K., Esk Estuary
asts832329	3	e	Review
asts840835	3	a,c,e	Review
asts851361	2	a	Field; U.K., Irish Sea
asts861362	3	a,e	Review
asts870836	3	a,c	Review
babj910056	1	e	Field; Pacific Mururoa
bacm850823	1	a	Field; Atlantic
ball861366	3	c	Lab Study
bals762636	1	a	Field; Mediterranean
bals782637	1	a	Field; Mediterranean
bals800058	1	a,b	Field; Mediterranean
bals811368	1	a	Field; Mediterranean
bals822510	1	a	Field; Mediterranean
bals832337	1	a	Field; Mediterranean
bals841369	1	a,b	Field; Mediterranean
bals860059	1	a	Field; Mediterranean
barg751375	2	f	Field; U.S.A., Miami River, OH
barg770541	2	f	Field; U.S.A., Miami River, OH
barg780540	2	f	Field; U.S.A., Miami River, OH
baxm832326	2	g,i	Review
beat760790	3	a	Lab Study
beat760811	3	a	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
beat791377	2	d	Field; U.S.A., Columbia River, WA
beat801378	1;3	a;a,b	Review
beat810065	2	c,d	Field; U.S.A., Columbia River, WA
beat810714	2	d	Field;U.S.A., Columbia River, WA
beat811379	2	d	Field; U.S.A., Columbia River, WA
beat822378	1	a	Field; Pacific
beat822379	2	c,d	Field; U.S.A., Hanford, Pacific
beat822383	1;2	a;d	Field; Pacific
beat840715	2	c,d	Field;U.S.A., Columbia River, WA
beat861380	1	b	Field;U.S.A., Columbia River, WA
beat871381	1;2	b;d	Review
beat871382	1;2	b;d	Field;U.S.A., Columbia River, WA
bely822499	1,2	a;a	Field; France, coastal sites.
bely841385	3	i	Lab Study
benb760068	1	g	diet; dose
benb762640	1	g	diet, dose
benl791391	1	a	Field; Atlantic
benl802641	1	a	Field; Atlantic
benl832332	1	a	Field; Atlantic
benl860660	1	a	Field;Atlantic
berk860719	1	a,b	Field; Pacific
beta860534	1	a	Field; Atlantic
beta880720	1;2	a;g	Field; Atlantic Ocean
biej811395	3	b	Lab Study
bjep850694	3	a	Lab Study
bogd881405	2	h	Field; U.S.A., NY drinking water
bojr791407	1	a,b	Field; Baltic
bokd811408	2	f	Field; U.S.A. Reservoirs, CO.
bone770704	2,3	f;e,f	Field; U.S.A., Lab Study
bone790549	2	f	Field; U.S.A. Oak Ridge, TN. pond
bone800699	2	f	Field; U.S.A. Oak Ridge, TN pond
bonp911217	1	b	Field; U.K., Cumbria
bonr871411	2	g,h	Review
bopr822393	1	a,b	Field; U.S.A., coastal, river
bowv710739	1	a	Field; Atlantic
bowv722783	1	b	Field; U.S.A., Great Lakes
bowv731415	1	b	Field; U.S.A., Great Lakes
bowv741416	1	b	Field;U.S.A., Great Lakes
bowv750756	1;2	a,e;a	Review
bowv752642	1	e	Field; Pacific
bowv752791	1	b	Field;U.S.A., Great Lakes

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
bowv760076	1;2	a;g	Field; Pacific, Atlantic
bowv760552	1	b	Field; U.S.A., Great Lakes
bowv760553	1	a	Field; Atlantic
bowv761417	1	a	Review
bowv772784	1	b	Field; U.S.A., Great Lakes
bowv800741	1	a,c	Field; Pacific
bowv802643	1	a	Field; Atlantic
bowv810074	2	c	Field; U.S.A. Atlantic coast
bowv811068	1;2	a;g	Field; Atlantic, Pacific
buek850761	1	b	Field; U.S.A., Gull Pond, MA
buek851426	1	a	Field; Atlantic
buek862644	1	a	Field; Atlantic
buek871427	1	a	Field; Atlantic
buek871428	1	a,c	Field; Atlantic
buek901220	1	c	Field; Black Sea, Accident
bulr850729	2	a	Field; U.K. Esk Estuary
burl921221	2	a	Field; U.K. Coastal Site
burp861433	3	c,e	Lab Study
burp881434	2	a	Field; U.K. Esk Estuary
cald851439	1	a	Field; Mediterranean
cald870094	1;2	a;a	Field; N. French Coast
camw891194	2	a,i	Review; Europe
camw922714	2	a,c,d,e,g,h,i	Field; U.K. Sites
camw932775	2	a,c,d,e,g,h,i	Field; U.K. Sites
cara781445	1	a	Field; Atlantic
cara791446	3	a	Lab Study
card871454	2	f	Field; U.S.A. Miami River OH
card881455	2	f	Field; U.S.A. Miami River OH
carf832335	3	a	Lab Study
carf841459	3	a	Lab Study
carf851460	3	a,e	Lab Study
carr801456	1	a	Field; Pacific
carr812645	1	a	Field; Pacific
carr871193	1	a	Field; Pacific
carr910097	2	a	Field; U.K. Coastal Sites
caug801465	1	a	Field; Atlantic
chel770902	1	a	Field; Pacific
cher801471	1	a	Field; Mediterranean
chog841472	3	e,g	Lab Study
chog851473	3	e,f	Lab Study
chog861474	3	e,g	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
chog871475	3	c,e,g	Lab Study
chog890912	3	c,e,g	Lab Study
chog901228	3	e	Lab Study
chog911227	3	e,f	Lab Study
clej822397	2	d	Field; U.S.A. gndwater ID
clej830922	3	e	Lab Study
clir822693	2	a	Field; U.K. Esk Estuary
clir830112	2	a	Field; U.K. Esk Estuary
clir891483	3	a	Lab Study
cluh521485	2	i	Field; Dose; U.S.A. Hanford WA
cocj832269	1;2	a;a	Field; Atlantic
cocj850115	1	a	Field; Pacific
cocj870114	1	a	Field; Atlantic
cohn851488	1	e	Field; Marshall Islands
corj760927	2	f	Field; U.S.A. SRL Drinking water
corr871491	1	b	Field; Canada, Lakes
coup840747	1;2	a,c,e,g;a,f,i	Review
crad740944	2	g	Field; U.S.A. California coast
croj810947	2	a	Field; U.K., Channel Islands
crom901231	2	a,i	Field; U.K. Coastal Site, Dose
cure911232	2	a,i	Field; U.K. Coastal Sites
cusc880749	3	b	Lab Study
dahh841496	3	a	Lab Study
dahh861497	3	a	Lab Study
dahr760124	2	f,i	Review
dans822354	1	a	Field; Mediterranean
dayj810876	2	a	Field; U.K. Irish Sea
dela791504	1	a	Field; Mediterranean
dela802646	1	a	Field; Mediterranean
dela841505	1	a	Field; Mediterranean
delm862647	1	a	Field; Spain coastal sites
delr861503	1	a,b	Field; Mediterranean, Rivers
delr862648	1	a	Field; Mediterranean
delr882650	1	a	Field; Mediterranean
dosr781515	3	d	Lab Study
drue830877	1	a	Field; Pacific
duns841521	1;2	a;a	Field; Baltic
dutj771522	2	a	Field; U.K. Irish Sea
duue761523	3	c,e	Lab Study
dyer762694	1;2	a;g	Field; Pacific
eakj840754	1	a	Field; U.K. Lake

Table 4 (continued). Location(s) of accession number listed in Tables 1-3.

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
eakj850131	1;2	b;b	Field; U.K. Lakes
eakj882695	2	a	Field; U.K. Coastal Sites
eakj901236	2	a	Field; U.K. Coastal Sites
edgd750134	2	f	Field; U.S.A. Miami River, OH
edgd750135	1	b	Field; U.S.A., Lake Michigan
edgd760133	1	b	Field; U.S.A., Lake Michigan
edgd760137	1	b	Field; U.S.A., Lake Michigan
edgd770136	1	b	Field; U.S.A., Great Lakes
edgd812550	1	a,b	Review
eich811529	2	a	Field; North Sea
emer741532	2	b	Field; U.S.A., pond Hanford, WA
emer741533	2	b	Field; U.S.A., pond Hanford, WA
emer751534	2	b	Field; U.S.A., pond Hanford, WA
emer762796	2	b	Field; U.S.A. pond Hanford WA.
emer762797	2	b	Field; U.S.A. pond Hanford WA
emer770141	2	b	Field; U.S.A., pond Hanford, WA
emer772793	2	b	Field; U.S.A. pond Hanford, WA
emer780860	2	b	Field; U.S.A., pond Hanford, WA
emer800143	2	b,i	Field; U.S.A. Hanford, WA. dose
emer801536	2	b	Field; U.S.A., pond Hanford, WA
emer802795	2	b	Field; U.S.A. pond Hanford, WA
eurr901240	1;2	a,g,a,i	Review; dose
eyml771550	1;2	b;f	Review
eyml801551	1;2	b;f	Review
farb771552	2	f	Field; U.S.A. Miami River, OH.
farb780152	2	f	Field; U.S.A. Miami River, OH
farb780572	2	f	Field; U.S.A. Miami River, OH
farb790150	2	f	Field; U.S.A. Miami River, OH
farb801553	2	f	Field; U.S.A. Miami River, OH
farb811555	2	f	Field; U.S.A. Miami River, OH
farb822368	2	f	Field; U.S.A. Miami River, OH
farb910151	2	f	Field; U.S.A. Miami River, OH
farj830975	1	a	Field; U.S.A. coastal
farj832341	2	a	Field; Scotland Coastal Sites
faud851557	1	f	Field; U.S.A. Fresh Water, NTS
felw830154	1	b	Field; Germany River
felw852696	1;2	a;g	Field; Atlantic
felw892651	1	a,c	Field; Baltic, Accident
felw892697	1;2	a;g	Field; Atlantic
fisn830977	3	a,e,g	Lab Study
fisn831070	3	a	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
fisn832320	3	a	Lab Study
fisn851563	3	a	Lab Study
fisn861564	3	a	Lab Study
fisn871072	3	a	Lab Study
fisn881073	1	a	Field; Atlantic
fisn911242	3	a	Lab Study
fisn911243	3	a,c	Lab Study
folt731078	1;2	a;c	Field; Pacific
folt790161	1	a	Field; Pacific
folt791589	3	a	Lab Study
folt792652	1	a	Field; Pacific
fosg840762	1	b	Review, Erosion
foul842241	2	b	Field; France river
fows751570	3	a	Lab Study
fows771080	2	a	Field; Irish Sea
fows831192	1	a	Field; Pacific
fows851571	3	a	Lab Study
fows852653	1	a	Field; Pacific
fows871196	1	a	Field; Pacific
fows892654	1	a	Field; Mediterranean
fows902655	1	a	Field; Mediterranean
fows922656	1	a	Field; Mediterranean
fraa751573	2	a	Field; France Coastal Sites
fraa761574	2	a	Field; France Coastal Sites
frej790165	3	a,i	Lab Study
frej801577	3	a	Lab Study
fukr762657	1	a	Field; Mediterranean
fukr791586	1	a	Field; Mediterranean
fukr792658	1	a	Field; Mediterranean
fukr801587	1	a	Field; Mediterranean
fukr810768	1;2	b;b	Field; France Rivers
fukr811588	1	a	Field; Mediterranean
fukr811590	1	a	Field; Mediterranean
fukr832330	1	a	Field; Mediterranean
fukr871591	1	a	Field; Mediterranean
galj841593	3	a,b	Lab Study
galj862771	3	a	Lab Study
galr881594	2	b	Field; U.K. river
garc810772	2	h	Field; U.S.A. pond TN
garc820579	2	h	Field; U.S.A. pond TN
garj892698	2	a	Field; U.K. Coastal Sites

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
garj902586	2	a	Field; Ireland coastal sites
gasc921086	1	a,e	Field; Mediterranean, Accident
gerp841601	3	a	Lab Study
gerp841602	2	a	Field; France Coastal Sites
gerp871603	2	a	Field; France Coastal Sites
gerp881600	2	a	Review
giej771604	3	b,h	Lab Study
giej781605	3	b	Lab Study
giej811606	3	b	Lab Study
gneg711615	3	b	Lab Study
gneg711617	3	b	Lab Study
gole751621	1	a	Field; Pacific
gole771622	1	a	Field; Atlantic
gole781089	1	a	Field; U.S.A. Coast
gole781624	1	a	Field; Atlantic
gole791090	1;2	b;f	Field; U.S.A. River
gole801625	1	a	Field; U.S.A. Coast
gole802660	1	a	Field; U.S.A. Coast
gole832334	1	a	Field. U.S.A. Coast
goln900188	2	h	Field; U.S.A. Argonne IL
gond890784	1	f,g	Field; U.S.A. Fresh water, NTS
gorg842264	3	a	Lab Study
gouf911246	3	a	Lab Study
graa861626	2	b	Review
gram850785	2	i	Dose; Russia
gren771629	1	e	Field; Marshall Islands
grip822415	2	i	Field; UK Dose
grov731197	3	c	Lab Study
grov741633	3	a	Lab Study
grov741634	1	a	Field; Pacific
grov741635	3	a	Lab Study
guaj751638	2	a	Field; France Coastal Sites
guaj761639	2	a	Field; France Coastal Sites
guaj771097	2	a	Field; France Coastal Sites
guaj771636	1;2	a;a	Field; France Coast
guaj791637	3	a	Lab Study
guaj811093	3	a	Lab Study
guaj811094	3	a	Lab Study
guaj812661	1	a	Field; Mediterranean
guaj821096	1;2	a;a	Field; France Coast
guaj822400	3	a	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
guaj901095	3	a	Lab Study
guep812536	2	a	Field; France Coastal Sites
gurp892776	2	a	Model; Irish Sea
habk870191	1	b	Field; Germany Drinking Water
hakt800587	2	h	Field; U.S.A. Los Alamos NM
hall860198	1;2	a;a	Field; Arctic
hame801103	2	a	Field; U.K. Esk Estuary
hame811104	2	a	Field; U.K. Esk Estuary
hame832700	2	a	Field; U.K. Irish Sea
hame841102	2	a	Field; U.K. Esk Estuary
hame852701	2	a	Field; U.K. Irish Sea
hame871654	2	a	Field; U.K. Esk Estuary
hame891655	2	a	Field; U.K. Esk Estuary
hame912702	2	a	Field; U.K. Irish Sea
hamj871101	3	c,e	Lab Study
hamt910200	3	a	Lab Study
hanw751106	1	e	Review
harb811115	3	c	Lab Study
harb842777	2	a	Field; U.K. Irish Sea
harb861663	3	a	Lab Study
hare760591	2	f	Field; U.S.A. Miami River OH
hare800204	1;2	b;f	Field; U.S.A., lake
harf751668	1	b	Review
harj790206	1	a	Review
harj881670	2	i	Dose UK
hayd761116	1;2	a;e,f	Field; U.S.A. Atlantic
hayd801673	1;2	a;e,f	Field; U.S.A. Atlantic Estuary
hayd871674	2	e	Field; U.S.A. Atlantic Estuary
hear841676	3	e,f	Lab Study
hear892758	3	e,f	Lab Study
heim860567	1	b	Field; U.S.A. lake NY
hetj750212	2	a	Field; U.K. Irish Sea
hetj760210	2	a,i	Field; U.K. Irish Sea
hetj761680	2	a	Field; U.K. Irish Sea
hetj762703	2	a	Field; U.K. Coastal Sites
hetj781117	2	a	Field; U.K. Irish Sea
higj771118	1	a	Field; Atlantic
higj781682	1	a	Field; Atlantic
higj801683	1	a	Field; Mediterranean
higj832331	3	c	Lab Study
higj861684	3	c	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
hirk810216	1	b	Field; Japan River
hirk900792	1	b	Field; Japan Rivers
hiss780217	1	c	Field; Pacific
hiss860795	1	a,g	Field; Pacific; Diet
hiss870218	1	a,g	Field; Pacific; Dose
hodv731122	1	a	Field; Pacific
hodv741121	1	a	Field; Pacific
hodv741690	1	a	Field; Pacific
hodv781692	1	a	Field; Pacific
hodv791120	1	a	Field; Pacific
hole772662	1	a	Field; Atlantic
hole800230	1	a	Field; Sweden Coast
hole801125	1	a	Field; Sweden Coast
hole801702	1	a	Field; Mediterranean
hole810225	1;2	a;a	Review
hole832311	1	a	Field; Arctic
hole862663	1;2	a;a	Field; Greenland Sea
hole862664	1	a	Field; Mediterranean
hole882747	1;2	a;b	Review; Mediterranean
hole911252	1	c	Field; Mediterranean, Accident
hopm791703	3	a	Lab Study
howj881712	2	a	Model U.K. Irish Sea
howj891254	2	a	Model U.K. Irish Sea
hung792704	2	a,c,d,e,i	Field; U.K. Sites
hung802705	2	a,c,d,e,i	Field; U.K. Sites
hung812706	2	a,c,d,e,i	Field; U.K. Sites
hung822707	2	a,c,d,e,i	Field; U.K. Sites
hung832708	2	a,c,d,e,i	Field; U.K. Sites
hung842709	2	a,c,d,e,i	Field; U.K. Sites
hung851130	2	a	Field; U.K. Irish Sea
hung852710	2	a,c,d,e,i	Field; U.K. Sites
hung852711	2	a,c,d,e,i	Field; U.K. Sites
hung861715	2	i	U.K. Dose
hung861716	2	a,c,d,e,i	Field; U.K. Sites
hung872712	2	a,c,d,e,i	Field; U.K. Sites
hung881127	2	a,c,d,e,i	Field; U.K. Sites
hung891128	2	a,c,d,e,i	Field; U.K. Sites
hung892778	2	i	U.K. Dose
hung901129	2	a,c,d,e,i	Field; U.K. Sites
hung902713	2	i	U.K. Dose
hylj851718	3	f	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
iaea852769	3	a,c	Review
iaea882749	2	i	Review Dose Organisms
ibr890236	2	d	Field; U.S.A. Idaho pond
igas822423	1	a	Field; Japan Bay
ilue870703	1;2	a;c	Field; Finland
ilue871719	1	c	Field; Baltic, Accident
ilue871720	1	c	Field; Baltic, Accident
imat731132	1	a	Field; Pacific
imay750237	1;2	a;a	Field; Japan Coast
irae890974	1	a,e,f	Field; Spain Coast, Accident
ishj880246	1	a	Field; Japan
iyer901133	2	c	Field; India coastal
jacd832750	1;2	a,e;a,g	Review
jama782779	2	a	Field; U.K. Esk Estuary
jeac810805	1;2	b;b	Field; France Rivers
jeac811729	1;2	a;a	Field; France Coast
jenc850251	1	a	Field; Mediterranean
johj742794	2	f	Field; U.S.A. Rocky Flats CO
johj811736	1	a	Field; Atlantic
joss881739	1;2	b;b	Field; U.S.A., Lake Ontario
joss891738	1	b	Field; U.S.A., Lake Ontario
karj751740	1	b	Field; U.S.A., Lake Michigan
kauh801743	2	a	Field; North Sea
kauh810260	1;2	a;a	Field; North Sea
kauh822500	1;2	a;a	Field; North Sea
kauh850259	1;2	a;a	Field; North Sea
kauh880258	1;2	a;a	Field; North Sea
kelm881135	2	a	Field; U.K. Esk Estuary
kelm911134	2	a	Field; U.K. Esk Estuary
kenc780611	2	f	Field; U.S.A. canal, OH
kerp832306	2	a	Field; U.K. Irish Sea
kerp841136	2	a	Field; U.K. Irish Sea
kerp861749	2	a	Field; U.K. Irish Sea
kerp862716	2	a	Field; U.K. Irish Sea
kerp892717	1;2	a;g	Field; Atlantic
kerp901137	2	a	Field; U.K. Irish Sea
kerp922751	2	a,i	Review; Irish Sea
kirl822360	2	h	Field; U.S.A. Maxey Flats KY
kirl830265	2	h	Field; U.S.A. Maxey Flats KY
kirr831139	2	a	Field; U.K. Irish Sea
kits761755	2	c	Field; Japan coast

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
knol880268	2	d	Field; U.S.A., Idaho groundwater
koim751198	1	a	Field; Pacific
koim771142	1	b	Field; Greenland Glacier
koim791141	1	b	Field; Antarctic Glacier
koim802665	1	a	Field; Pacific
koim811144	1	b	Field; Antarctic, Arctic Glaciers
koim811200	1	a	Field; Pacific
koim820269	1	b	Field; Antarctic, Arctic Glaciers
koim821143	1	a	Field; U.S.A. Coast
koim821145	1	a	Field; Pacific
koim831199	1	b	Field; Antarctic, Arctic Glaciers
koim851146	1	b	Field; Antarctic, Arctic Glaciers
koim790270	1;2	a;c	Field; Finland
koim800616	1;2	a;c	Field; Finland
koim800617	1;2	a;c	Field; Finland
komk840815	1	e	Review
kona911258	2	d	Field; Russia marsh
koyt861762	3	a	Lab Study
kris741769	1	a,b	Field; Pacific; U.S.A. Lake
kris801770	1	a,b	Field; Atlantic; U.S.A. Lake
kris841771	1	a	Field; Atlantic U.S.A. Coast
krom851774	1	a	Field; Atlantic U.S.A. Coast
kubd681775	2	g	Field; U.S.A. California coast
kubd691149	2	g	Field; U.S.A. California coast
kuda910274	1	f	Field; Japan; Fresh water, Weapon
kurm760621	1;2	a;a	Field; Japan Coast
kurm801776	1;2	a;a,i	Field; Japan Coast
kuzg780276	2	d	Field; U.S.A., ponds ID
kuzg871777	2	d	Field; U.S.A. ponds ID
kuzy822416	1	a	Review
labl760277	1	a	Field; Atlantic
labl771778	1	a	Field; Atlantic
lald771780	1	a	Field; Pacific
lamm751781	1;2	b;f	Field; U.S.A. Reservoirs, CO
lapg871782	1	a	Field; Atlantic
larr781152	1	b	Field; U.S.A. Drinking Water
larr781783	3	f	Lab Study
larr831151	1	b,g	Review
lasg830279	2	d	Field; U.S.A., pond Hanford WA
lazl880281	1	a	Field; Baltic
ledp861786	1	a	Field; Antarctic

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
leod811156	3	a	Lab Study
less862666	1	a	Field; Baltic
levy781799	1	e	Field; Marshall Islands
levy781800	1	e	Field; Marshall Islands
linp801157	1;2	a;c	Field; Atlantic Coast
linp851804	1	a	Field; Atlantic Coast
linr921260	1	b	Field; China, Lake
livh751165	1	a	Field; Atlantic
livh760294	1	a	Field; Northern Hemisphere
livh760295	1	a	Field; Northern Hemisphere
livh771163	1;2	a;a	Field; North Sea
livh771808	1	a	Field; Mediterranean
livh790296	1	a	Field; Mediterranean
livh791811	1	a	Field; Atlantic
livh802667	1	a	Field; Atlantic
livh821162	1;2	a;a	Field; North Sea
livh821164	1	a,c	Field; Pacific
livh830293	1	a	Field; Atlantic, Pacific
livh841810	2	a	Field; Arctic
livh852668	1	a,c	Field; Pacific, Atlantic
livh862669	1	a	Field; Pacific
livh870297	1	a,c	Field; Pacific
livh882670	a	c	Field; Black Sea, Accident
liwe871801	1	a	Field; Pacific
lizh880831	1	b	Field; China, River
lovn811161	2;3	a;e	Field; Lab Study
maca821166	2	a	Field; Scotland Coast
mahy881171	1	f	Field; Japan, Reservoir
malj751819	2	i	Dose reactors
mals901172	2	a	Field; U.K., Irish Sea
mals901261	2	a	Field; U.K., Irish Sea
mand842671	1	a	Field; Pacific
manj891820	1	b	Field; Yugoslavia, Lake
mard871821	3	b	Lab Study
marj751175	1	b	Field; U.S.A. Great Lakes
marj861827	2	d	Field; U.S.A. Michigan
marj901262	2	b	Field; France river
marj901263	1	e	Field; Mururoa
marr741822	1	e	Field; Marshall Islands
mate801832	3	g	Lab Study
matv830307	3	a	Lab Study

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
matv832333	1;2	a;a	Field; India, Bay
matv900308	2	a	Field; India, Bay
matv921264	2	a	Field; India, coast
mcdp901168	2	a	Field; Scotland, coast
mckw880314	2	a	Field; U.K. coast, Model
mckw891841	2	a	Field; U.K. Irish Sea coast
mckw901268	2	a	Field; U.K. Irish Sea coast
mckw911266	2	a,i	Field; U.K. Cumbria coast, dose
mckw911267	2	a,i	Field; U.K. Irish Sea, dose
mcmg851844	1	e	Field; Marshall Islands
metm800853	2	h	Field; Belgium river
metm811846	1	b	Review
metm820852	2	h	Field; Belgium river
meyh791848	3	b	Lab Study
miej751851	1	a	Field; Baltic
miej760322	1	a	Field; Finland
miej820323	1	a	Field; Baltic
mirp821179	3	a	Lab Study
mirp841856	2	a	Field; France coastal sites
mirp851180	3	a	Lab Study
mirp862772	3	a	Lab Study
mirp871857	3	a	Lab Study
mirp891858	3	a	Lab Study
mitn752719	2	a,i	Field; U.K. Sites
mitn772720	2	a,i	Field; U.K. Sites
mitn772721	2	a	Field; U.K. Sites
mitp872722	2	a	Field; Ireland, Bay
mitp872723	2	a	Field; Ireland coastal sites
mitp882724	2	a	Field; Ireland coastal sites
mitp912725	2	a	Field; Ireland, Irish Sea
miyt862672	1	a	Field; Pacific
miyy681183	1	a	Field; Pacific
miyy761181	1	a	Field; Pacific
monm861868	1	a	Field; Atlantic, Spain
morj861871	3	c,e,g	Lab Study
morj911271	1;2	b,c,d,e,f,g,h;a	Review
mors801870	2	c	Field; Japan coast
moti751184	3	a	Lab Study
mouv881872	3	h	Lab Study
muds881187	3	c,d,e,f,h	Lab Study
mula761188	1	a,b,g	Review

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
mulr770635	2	f	Field; U.S.A. Miami river, OH
murc751878	3	c,d,e,f	Lab Study
murc761879	3	a	Lab Study
murc771189	1;2	a;a	Field; North Sea
murc781880	3	a	Lab Study
murc781881	1	a	Field; Mediterranean
murc781882	2	a	Field; North Sea
murc790334	2	a	Field; North Sea
murc791883	2	a	Review; Model assessment
murc791884	2	a	Review; Model
murc821202	3	d,f	Lab Study
myed750336	2;3	h;b	Lab Study
nagy841051	1	a,c	Field; Pacific
nagy851887	1	a	Field; Pacific
nagy861888	1	a	Review
nagy870858	1	a	Field; Pacific, Japan
nagy872792	1	a	Field; Pacific
nagy900859	1	a	Field; Pacific, Japan
nagy922781	1	a	Field; Pacific
nair851889	2	c	Field; India coast
nair880337	3	d	Review
nakk851052	1	a	Field; Pacific
nakk901273	1	a	Field; Japan
nakt841053	1	a	Field; Pacific
nakt881891	1	a	Review
nask881894	3	f	Lab Study
neld781055	2	a	Field; U.K. Irish Sea
neld811056	2	a	Field; U.K. Irish Sea
neld841057	1	a	Field; Pacific
neld850338	1	b	Field; U.S.A., Lakes
neld851058	3	d,f,h	Lab Study
neld871899	1;3	a,b,f	Review; Lab Experiment
neld891900	1	b	Field; U.S.A. Lake, CA
nelv732673	1	e	Field; Marshall Islands
nelv760639	1	a	Field; Alaska
nelv770339	a	c,e	Field; Marshall Islands
nelv770638	1	a	Field; Alaska
nelv790636	1	a	Field; Micronesia
neva751902	1	e	Field; Marshall Islands
neva751903	1	e	Field; Marshall Islands
nics881904	2	a,i	Field; U.K. Irish Sea

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
nieh882675	1	a	Field; Atlantic
nieh901274	2	a	Field; North Sea
nieh932920	2	a	Field; North Sea
nier822344	1	a	Field; Pacific, U.S.A. Coast
nilk812676	1	a	Baltic
nosv721059	1;2	a,e;b	Review
nosv731060	1	a	Field; Atlantic
nosv731914	1	a	Field; Atlantic, U.S.A. Coast
nosv741062	1	a	Field; Atlantic
nosv741915	1	e	Field; Marshall Islands
nosv751061	1	e	Field; Marshall Islands
nosv760346	1	a,e	Field; Marshall Islands
nosv760351	1	e,f	Field; Marshall Islands
nosv780353	1;2	a;g	Field; Pacific
nosv790647	1	a	Field; Marshall Islands
nosv800350	1	a,c,e	Field; Marshall Islands
nosv801916	1	a	Field; Pacific
nosv802516	1	e	Field; Marshall Islands
nosv802677	1	e	Field; Marshall Islands
nosv810345	1;2	a;g	Field; Pacific
nosv810347	1	c,e	Field; Marshall Islands
nosv810646	1	c	Field; Marshall Islands
nosv811917	1	d,f,g	Field; Marshall Islands
nosv812551	1	e	Field; Marshall Islands
nosv830352	1;2	a;g	Field; Atlantic
nosv832680	1	a	Field; Atlantic
nosv852752	1;2	a,e;a	Review
nosv860348	1;2	a,c,e;g	Field; Atlantic & Marshall Islands
nosv861201	1;2	a,e;a,g	Review
nosv862726	1;2	a;g	Field; Atlantic
nosv870349	1	a,c,e	Field; Marshall Islands
nosv870867	1	c,e,g	Field; Marshall Islands, Dose
nosv880869	1	e	Field; Marshall Islands
nrcr832284	1	a,b,g	Review
nyhj820357	2	h	Field; U.S.A. Los Alamos NM
oakt822347	2	f	Field; U.S.A. Clinch river, TN
oecd852727	2	g	Review; NEA Disposal Site
okas771926	1	a,g	Field; Japan, Dose
okas781927	1	c,g	Field; Japan, Dose
okas791928	2	a	Field; Japan coast, dose
olsc801065	1	a	Field; Atlantic, U.S.A. Coast

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
olsc810364	1	a	Field; Atlantic, U.S.A. Coast
olsc810365	1	a	Field, Atlantic, U.S.A. Coast
olsc891066	2	e,f	Field; U.S.A. Atlantic estuary
onyi820875	2	b	Field; U.S.A. creeks NY
orlk861063	3	d,f	Lab Study
orlk901275	2	d	Field; U.K. Wales lake
ostp910359	1	a	Field; Baltic
ostp911276	1	a	Field; Baltic
paid771926	2	f	Field; U.S.A. Savannah river SC
paid801929	2	f	Field; U.S.A. Rocky Flats CO
palj841203	1	a	Field; U.S.A. Coast
papc882728	1;2	a;g	Field; Atlantic; Disposal Site
papc892729	1;2	a;g	Field; Atlantic; Disposal Site
pasa781930	1	g	Review organisms
patb792730	2	a	Field; India, Bay
patj761035	3	e,f	Lab Study
patj801934	3	e	Lab Study
patj832297	3	e,f	Lab Study
penr761038	2	a	Field; U.K. Irish Sea
penr770373	2	a	Review
penr771936	2	a	Field; U.K. Irish Sea
penr780374	2	a	Field; U.K. Irish Sea
penr780650	3	a	Lab Study
penr781039	3	a	Lab Study
penr790651	2	a,i	Field; U.K. Irish Sea
penr802731	2	a	Field; U.K. Irish Sea
penr811034	2	a	Field; U.K. Irish Sea
penr811036	1;2	a,e;a,i	Review
penr811937	2	a	Field; U.K. Irish Sea
penr822732	2	a	Field; U.K. Irish Sea
penr841040	2	a	Review
penr841938	1;2	a,e;a	Review
penr842733	2	a,i	Field; U.K. dose
penr852734	2	a	Field; U.K. Irish Sea
penr861939	2	a	Field; U.K. Irish Sea
penr862735	2	a	Field; U.K. Irish Sea
penr862770	2	a	Field; U.K. Sites
penr872736	2	a	Field; U.K. Irish Sea
penr882737	2	a,i	Field; U.K. dose
penr882753	1	g	Review organisms
penr882754	1;2	a,e;a,g	Review

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
penr882780	2	a,i	Field; U.K. Irish Sea dose
penr891037	2	a,i	Field; U.K. Irish Sea dose
penw871935	3	f	Lab Study
penw901041	2	h	Field; U.S.A. Los Alamos NM
pilk641042	1	a	Field; Pacific
pilk751948	2	a	Field; India Bay
pilk752738	2	a	Field; India Bay
pilk760377	2	a	Field; India Bay
pilk822502	2	a	Field; India Bay
pimm791953	2	b	Field; Germany river
pimm822353	2	b	Field; Germany river
pinj921281	2	d	Field; U.S.A. pond SC
plap761960	1	b	Field; U.S.A. Lake Michigan
poep800653	2	d	Field; Germany river
poes721043	2	f	Field; U.S.A. Reservoirs, CO
pors861963	1	a	Field; Mediterranean
post881965	2	i	Review; Dose
purc891968	1	a	Field; Atlantic
purw901283	2	h	Field; U.S.A. river CO & NM
purw901284	2	h	Field; U.S.A. Los Alamos NM
raid801047	3	f	Lab Study
reet781976	2	f	Field; U.S.A. pond CO
reij911285	3	a	Lab Study
ribj902919	1	c	Model; Baltic
risn781980	1	a	Field; Pacific
robcd711986	3	a	Lab Study
robcd731987	2	d	Field; U.S.A. Columbia River, WA
robcd771988	2	d	Field; U.S.A. Columbia River, WA
robj851981	1	b	Field; U.S.A. Great Lakes
robj851982	1	b	Field; U.S.A. Great Lakes
robj911287	1	b	Field; U.S.A. Great Lakes
robr841984	3	e	Lab Study
robr851985	3	e,g	Lab Study
robw800403	1	e,f,g	Field; Marshall Islands, Dose
robw810402	1;2	e,g	Field; Marshall Islands
robw810660	1	c,g	Field; Marshall Islands, Dose
rodd760661	2	f	Field; U.S.A. Mound Lab OH
rogd751992	2	f	Field; U.S.A. Mound Lab OH
rotr851998	1	a	Field; Gulf of Mexico
sakm752003	1	c	Field; Pacific
sakm792004	2	c	Field; Japan coast

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
sakm870413	1	a,f	Review
sakm900843	1	a,e	Review
sakm911290	1	f	Field; Japan
sakr870570	2	c	Field; Baltic
sala800416	1	a	Field; Baltic
sala830417	2	c	Field; Baltic
sala842681	1	a	Field; Baltic
sala862007	1	a	Field; Baltic
sana822410	3	c,d	Lab Study
sana832272	1	a,b	Field; Pacific, Fresh water
sana851001	3	d,f	Lab Study
sana861002	1	a,b	Field; Pacific; Canada Lake
sana880418	1	a	Field; Baltic
sana911291	1	a	Field; Black Sea
sanp802011	1	a	Field; Atlantic, U.S.A. Coast
sanp822394	1	a	Field; Atlantic, U.S.A. Coast
saxr891292	1	a	Field; Baltic, Accident
sayf872683	1	a	Field; Atlantic
schf862018	3	c	Lab Study
schh820428	2	b	Field; Germany river
schk742015	2	h	Field; U.S.A. Los Alamos NM
schw731007	1	e	Field; Marshall Islands
schw742012	1	e	Field; Marshall Islands
schw751003	1	e	Field; Marshall Islands
schw760421	1	e	Field; Marshall Islands
schw782013	1	e	Field; Marshall Islands
schw782740	1;2	a;g	Field; Pacific Disposal Site
schw792014	3	c	Lab Study
schw800424	1;2	a,d;g	Field; Pacific Disposal Site
schw802515	1	e	Field; Marshall Islands
schw822373	3	c,d	Lab Study
schw830903	1;2	a;g	Field; Atlantic Disposal Site
schw872685	1	e	Field; Marshall Islands
scom002025	3	g,h	Lab Study
scom780430	1	b	Field; U.S.A. River
scom802785	1	b	Field; U.S.A. Rivers
scom832324	1	a	Field; Gulf of Mexico
scom850431	1	b	Field; U.S.A. River
scom852027	1	a	Field; Gulf of Mexico
scom862028	1	a	Field; Gulf of Mexico
scom872029	1	b	Field; U.S.A. River

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
scop842262	2	g,i	Review
sedj742030	2	h	Field; U.S.A. Argonne IL
sedj782032	2	h	Field; U.S.A. Argonne IL
seya792036	3	c,d	Lab Study
shap821008	3	c	Lab Study
sheg831009	3	g,h	Lab Study
shej762037	3	c	Lab Study
shik920973	2	a,i	Field; Japan coast Dose
shis870439	1	c	Field; Pacific
shoe821016	1	b	Field; U.S.A. Lake, Ma.
shoe831015	3	d,g	Lab Study
shoe832755	1	a,b	Review
shoe842043	1	a	Field; Atlantic U.S.A. Coast
shoe872044	1	a	Field; Atlantic U.S.A. Coast
sibt822345	3	c,d	Lab Study
sibt822351	3	d	Lab Study
sibt842045	3	c	Lab Study
sibt862046	3	e	Lab Study
sibt901295	3	a	Lab Study
silg892090	3	e,f	Lab Study
simh760445	1	a	Field; Atlantic U.S.A. Coast
simh800683	1	b	Field; U.S.A. River, NY
simh801017	1	b	Field; U.S.A. Lake, CA
simh820451	1	b	Field; U.S.A. Lake, CA
simh842052	1	b	Field; U.S.A. Lakes
simh852053	1	b	Field; U.S.A. Lakes
simh870444	1	a	Field; Atlantic U.S.A. Coast
simk770443	1	a	Field; Baltic
simk792049	1	a	Field; Baltic
sinh770684	2	h	Field; U.S.A. Argonne IL
skwb900978	1	a	Field; Baltic, Accident
smij820461	1	a	Field; Atlantic Canada Coast
smij861019	1;2	a;g	Field; Atlantic Disposal Site
smij872069	1	a	Field; Atlantic Canada Coast
smij892741	1;2	a;g	Field; Atlantic Disposal Site
smit801018	2	a	Field; U.K. Irish Sea
sprd780467	1	b	Field; U.S.A. River
stad822389	3	c	Lab Study
stad862073	3	c	Lab Study
stom851024	1	a	Field; Atlantic
sugy762083	1	a,b	Review

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
summ802086	2	i	Dose Japan
summ812087	1	a,g	Field; Japan Dose
swaj840930	3	h	Lab Study
swaj860929	3	h	Lab Study
swid882773	3	a	Lab Study
temw662742	2	a	Field; U.K. Irish Sea
them800477	1	a	Field; Mediterranean
thig792100	3	b	Lab Study
thig802101	3	b	Lab Study
thig832266	3	b	Lab Study
thig842102	3	b	Lab Study
thoc582686	1	c	Field; Pacific
thom75110	2	f	Field; U.S.A. Rocky Flats CO
thon822429	2	a	Field; U.K. Irish Sea
thor812103	3	a	Review
tilj762112	3	b	Lab Study
tkam772113	3	b,f	Lab Study
tooj900934	2	a	Field; Scotland coast
torl790480	1	a	Field; Pacific Alaska Coast
traj762116	3	b	Lab Study
traj782117	3	b	Lab Study
traj832290	2	f	Field; U.S.A. pond TN
tric822419	1	a	Field; Mediterranean
tric822503	1	a	Field; Mediterranean
tuok862119	1	a	Field; Baltic
turd911032	2	a	Field; U.K. Esk Estuary
vana862122	3	c	Lab Study
vanj832323	3	a	Lab Study
vanj870937	3	b	Lab Study
vano810979	1;2	a,b;a	Review
vano842123	3	c,d	Lab Study
volh752131	2	f	Field; U.S.A. Mound Lab OH
volh762133	2	f	Field; U.S.A. Mound Lab OH
volh832298	1	b	Field; U.S.A. Lake, OR
wahm732786	1	b	Field; U.S.A. Great Lakes
wahm740983	1	b	Field; U.S.A. Lake Michigan
wahm742138	1;2	b;d	Field; U.S.A. Lake Michigan
wahm742787	1	b	Field; U.S.A. Lake Michigan
wahm750493	1	b	Field; U.S.A. Lake Michigan
wahm750982	1	b	Field; U.S.A. Great Lakes

Table 4 (continued). Location(s) of accession number listed in Tables 1-3 .

Accession Number	Table	Column(s)	Type of Study and Region (when applicable)
wahm760491	1	b	Field; U.S.A. Lake Michigan
wahm772788	1	b	Field; U.S.A. Great Lakes
wahm772789	1	b	Field; U.S.A. Great Lakes
wahm780784	1	b	Field; U.S.A. Lake Michigan
wahm781205	1	b	Field; U.S.A. & Canada Lakes
wahm781206	1	b	Field; U.S.A. & Canada Lakes
wahm802139	1	b	Field; U.S.A. Great Lakes
wahm820494	1	b	Field; U.S.A. & Canada Lakes
walm911300	2	a	Field; U.K. Irish Sea
watr802757	1;2	a,b,e;a,d,f	Review
watr832315	1	b	Review
wayc752151	2	f	Field; U.S.A. Miami river OH
wayc772152	2	f	Field; U.S.A. Miami river OH
weid832288	1	a	Field; Baltic
weihs60972	2	g	Field; U.S.A. California coast
wela692156	1	e	Field; Marshall Islands
whif900989	2	f	Field; U.S.A. SRL pond SC
wild752166	1	e,g	Field; Marshall Islands
wilt882743	2	a	Field; Scotland Lock Etive
wonk700993	1	a	Field; Atlantic U.S.A. Coast
wonk710994	1	a	Field; Pacific U.S.A. Coast
wonk722170	1	a	Field; Pacific U.S.A. Coast
wonk792171	1	a,e	Field; Pacific
wonk922688	1	a	Field; Pacific U.S.A. Coast
wood840508	2	a	Review
wood862172	2	a,i	Field; U.K. Esk Estuary
wood882744	2	a	Field; U.K. Irish Sea
yage740995	1	b	Field; U.S.A. Lake Michigan
yama770515	1	a	Field; Pacific Japan Coast
yama842257	1;2	a;a	Field; Pacific Japan Coast
yama911306	1	a	Field; Pacific Japan Coast
yama921307	1	a	Field; Pacific Japan Coast
yamm790510	1	a	Field; Pacific Japan Coast
yamm840996	1	a	Field; Pacific Japan Coast
yamm901304	1	a,b	Field; Pacific Japan Coast, Lakes
yamm911305	1	a,b	Field; Pacific Japan Coast, Lakes
yanh862178	1	a	Field; Pacific
yank822689	1	a	Field; Korea Coast
zilj742183	2	f	Field; U.S.A. Rocky Flats CO
zlov700999	3	a	Lab Study
zlov732185	3	a	Lab Study

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